

C1GALT1C1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8769a**Specification****C1GALT1C1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q96EU7](#)**C1GALT1C1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 29071**Other Names**

C1GALT1-specific chaperone 1, C38H2-like protein 1, C38H2-L1, Core 1 beta1, 3-galactosyltransferase 2, C1Gal-T2, C1Galt2, Core 1 beta3-Gal-T2, Core 1 beta3-galactosyltransferase-specific molecular chaperone, C1GALT1C1, COSMC

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8769a was selected from the N-term region of human C1GALT1C1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

C1GALT1C1 Antibody (N-term) Blocking Peptide - Protein Information**Name** C1GALT1C1**Synonyms** COSMC**Function**

Probable chaperone required for the generation of 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Probably acts as a specific molecular chaperone assisting the folding/stability of core 1 beta-3- galactosyltransferase (C1GALT1).

Cellular Location

Membrane; Single-pass type II membrane protein

Tissue Location

Ubiquitously expressed. Abundantly expressed in salivary gland, stomach, small intestine, kidney, and testis and at intermediate levels in whole brain, cerebellum, spinal cord, thymus, spleen, trachea, lung, pancreas, ovary, and uterus

C1GALT1C1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

C1GALT1C1 Antibody (N-term) Blocking Peptide - Images**C1GALT1C1 Antibody (N-term) Blocking Peptide - Background**

C1GALT1C1 is a type II transmembrane protein that is similar to the core 1 beta1,3-galactosyltransferase 1, which catalyzes the synthesis of the core-1 structure, also known as Thomsen-Friedenreich antigen, on O-linked glycans. This protein lacks the galactosyltransferase activity itself, but instead acts as a molecular chaperone required for the folding, stability and full activity of the core 1 beta1,3-galactosyltransferase 1.

C1GALT1C1 Antibody (N-term) Blocking Peptide - References

Ju,T. et.al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16613-16618 (2002)